

L Number	Hits	Search Text	DB	Time stamp
1	1	20030085349.pn.	USPAT; US-PPGPUB	2003/12/03 11:41
2	7	5451782.pn. or 5206507.pn. or 5200613.pn. or 5171991.pn. or 5352890.pn. or 4882484.pn. or 5198665.pn.	USPAT; US-PPGPUB	2003/12/03 11:46
3	1856	(250/281,282,290,292).CCLS.	USPAT;	2003/12/03
4	0	("L3and((ionadjtrap)near3(massadjspectromet\$5)).PN.	USPAT; US-PPGPUB	2003/12/03 11:46
5	338	((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))	USPAT; US-PPGPUB	2003/12/03
6	19	((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))	USPAT; US-PPGPUB	2003/12/03 11:50
7	1	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPAT; US-PPGPUB	2003/12/03 12:08
8	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 ((frequency near3 scan\$4)))	USPAT; US-PPGPUB	2003/12/03 12:35
9	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((supplemental adj voltage) with (frequency near3 scan\$4))	USPAT; US-PPGPUB	2003/12/03 12:00
10	0	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))))) and dissociation	USPAT; US-PPGPUB	2003/12/03 12:00
11	0	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))))) and dissociat\$5	USPAT; US-PPGPUB	2003/12/03 12:01
12	9	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and dissociat\$5	USPAT; US-PPGPUB	2003/12/03 12:02
13	6	(5451782.pn. or 5206507.pn. or 5200613.pn. or 5171991.pn. or 5352890.pn. or 4882484.pn. or 5198665.pn.) and dissociat\$5	USPAT; US-PPGPUB	2003/12/03 12:02
15	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and dissociat\$5) and (bath adj gas)	USPAT; US-PPGPUB	2003/12/03 12:05
14	1	20030085349.pn. and dissociat\$5	USPAT; US-PPGPUB	2003/12/03 12:06

16	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPAT; US-PGPUB	2003/12/03 12:09
17	19	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))	USPAT; US-PGPUB	2003/12/03 12:09
18	1	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) with (ring adj electrode))	USPAT; US-PGPUB	2003/12/03 12:11
19	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 hole) with (ring adj electrode))	USPAT; US-PGPUB	2003/12/03 12:10
20	1	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) with (ring adj electrode))	USPAT; US-PGPUB	2003/12/03 12:11
21	0	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPAT; US-PGPUB	2003/12/03 12:12
22	13	((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPAT; US-PGPUB	2003/12/03 12:32
23	3	5399857.pn. or 6005245.pn. or 6469298.pn.	USPAT; US-PGPUB	2003/12/03 12:33
24	12	((250/281,282,290,292).CCLS.) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPAT; US-PGPUB USPAT; US-PGPUB	2003/12/03 12:44
25	0	(5399857.pn. or 6005245.pn. or 6469298.pn.) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPAT; US-PGPUB	2003/12/03 12:34
26	1	6627875.pn.	USPAT; US-PGPUB	2003/12/03 12:35
27	0	6627875.pn. and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPAT; US-PGPUB	2003/12/03 12:35
28	0	(5399857.pn. or 6005245.pn. or 6469298.pn.) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPAT; US-PGPUB	2003/12/03 12:44
29	0	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 hole) with (ring adj electrode))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPAT; US-PGPUB	2003/12/03 12:44

30	1	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))))	USPAT; US-PGPUB	2003/12/03 12:54
31	0	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (frequency adj (scan\$4 or vari\$6))))	USPAT; US-PGPUB	2003/12/03 12:46
32	48	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))))) (hole near3 endcap)	USPAT; US-PGPUB	2003/12/03 12:47
33	0	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))))) and (hole near3 endcap)	USPAT; US-PGPUB	2003/12/03 12:47
34	19	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) or (((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and dissociat\$5))	USPAT; US-PGPUB	2003/12/03 12:54
35	30	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) or (((250/281,282,290,292).CCLS.) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))))	USPAT; US-PGPUB	2003/12/03 12:55

36	0	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) or (((250/281,282,290,292).CCLS.) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))))) and (pulse\$2 near3 valve)	USPAT; US-PPGPUB	2003/12/03 12:55
37	1	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) or (((250/281,282,290,292).CCLS.) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))))) and (valve\$2 with solenoid\$2)	USPAT; US-PPGPUB	2003/12/03 13:35
38	3	(((((250/281,282,290,292).CCLS.) and ((ion adj trap) near3 (mass adj spectromet\$5))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))) or (((250/281,282,290,292).CCLS.) and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6)))))) and (distance near3 mm)	USPAT; US-PPGPUB	2003/12/03 13:36

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	1	20030085349.pn.	USPA T; US-P GPUB	2003/12/0 3 11:41	
2	BRS	L2	7	5451782.pn. or 5206507.pn. or 5200613.pn. or 5171991.pn. or 5352890.pn. or 4882484.pn. or 5198665.pn.	USPA T; US-P GPUB	2003/12/0 3 11:46	
3	IS&R	L3	1856	(250/281,282,290,292) .CCLS.	USPA T; US-P GPUB	2003/12/0 3 11:46	
4	IS&R	L4	0	("L3 and ((ionadjtrap)n ear3 (massadjspectrome t\$4))").PN.	USPA T; US-P GPUB	2003/12/0 3 11:49	
5	BRS	L5	338	L3 and ((ion adj trap) near3 (mass adj spectromet\$5))	USPA T; US-P GPUB	2003/12/0 3 11:50	
6	BRS	L6	19	L5 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))	USPA T; US-P GPUB	2003/12/0 3 12:08	
7	BRS	L7	1	L6 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:35	
8	BRS	L8	0	L6 and (((AC or RF or supplemental) adj voltage) near3 (frequency near3 scan\$4)))	USPA T; US-P GPUB	2003/12/0 3 11:59	
9	BRS	L9	0	L6 and ((supplemental adj voltage) with (frequency near3 scan\$4))	USPA T; US-P GPUB	2003/12/0 3 12:00	
10	BRS	L10	0	L7 and dissociation	USPA T; US-P GPUB	2003/12/0 3 12:00	
11	BRS	L11	0	L7 and dissociat\$5	USPA T; US-P GPUB	2003/12/0 3 12:01	

	Error Definition	Er ro rs
1		0
2		0
3		0
4		0
5		0
6		0
7		0
8		0
9		0
10		0
11		0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
12	BRS	L12	9	L6 and dissociat\$5	USPA T; US-P GPUB	2003/12/0 3 12:02	
13	BRS	L13	6	L2 and dissociat\$5	USPA T; US-P GPUB	2003/12/0 3 12:02	
14	BRS	L15	0	L12 and (bath adj gas)	USPA T; US-P GPUB	2003/12/0 3 12:05	
15	BRS	L14	1	L1 and dissociat\$5	USPA T; US-P GPUB	2003/12/0 3 12:06	
16	BRS	L16	0	L6 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:09	
17	BRS	L17	19	L6 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening))	USPA T; US-P GPUB	2003/12/0 3 12:09	
18	BRS	L18	1	L6 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) with (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:11	
19	BRS	L19	0	L6 and ((gas near3 hole) with (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:10	
20	BRS	L20	1	L5 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) with (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:11	
21	BRS	L21	0	L5 and ((gas near3 introd\$7) near5 (inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:12	

	Error Definition	Er ro rs
12		0
13		0
14		0
15		0
16		0
17		0
18		0
19		0
20		0
21		0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
22	BRS	L22	13	L5 and ((inlet or hole or orifice or port\$3 or opening) near3 (ring adj electrode))	USPA T; US-P GPUB	2003/12/0 3 12:32	
23	BRS	L23	3	5399857.pn. or 6005245.pn. or 6469298.pn.	USPA T; US-P GPUB	2003/12/0 3 12:33	
24	BRS	L24	12	L3 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:44	
25	BRS	L25	0	L23 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:34	
26	BRS	L26	1	6627875.pn.	USPA T; US-P GPUB	2003/12/0 3 12:35	
27	BRS	L27	0	L26 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:35	
28	BRS	L28	0	L23 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:44	
29	BRS	L29	0	L19 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:44	
30	BRS	L30	1	L17 and (((AC or RF or supplemental) adj voltage) near3 (broadband or (frequency adj (scan\$4 or vari\$6))))	USPA T; US-P GPUB	2003/12/0 3 12:54	

	Error Definition	Er ro rs
22		0
23		0
24		0
25		0
26		0
27		0
28		0
29		0
30		0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
31	BRS	L31	0	L17 and (((AC or RF or supplemental) adj voltage) near3 ((frequency adj (scan\$4 or vari\$6))))	USPAT; US-P GPUB	2003/12/03 12:46	
32	BRS	L32	48	L30 (hole near3 endcap)	USPAT; US-P GPUB	2003/12/03 12:47	
33	BRS	L33	0	L30 and (hole near3 endcap)	USPAT; US-P GPUB	2003/12/03 12:47	
34	BRS	L34	19	L17 or L12	USPAT; US-P GPUB	2003/12/03 12:54	
35	BRS	L35	30	L17 or L24	USPAT; US-P GPUB	2003/12/03 12:55	
36	BRS	L36	0	L35 and (pulse\$2 near3 valve)	USPAT; US-P GPUB	2003/12/03 12:55	
37	BRS	L37	1	L35 and (valve\$2 with solenoid\$2)	USPAT; US-P GPUB	2003/12/03 13:35	
38	BRS	L38	3	L35 and (distance near3 mm)	USPAT; US-P GPUB	2003/12/03 13:36	

	Error Definition	Er ro rs
31		0
32		0
33		0
34		0
35		0
36		0
37		0
38		0